



BASE BOOST

SELECTION DATA

GENERIC TYPE: water-based blended silicate solution for use as a concrete densifier and/or adhesion promoter

USES

CONCRETE DENSIFIER: ready to use blend of penetrating additives and reactive silicates applied to densify/harden concrete. Once applied, Smith's Base Boost chemically reacts resulting in crystalline structures that embed within the concrete surface. This treatment increases chemical and abrasion resistance. In addition, Base Boost is a key component in the Polishing with Smith's Liquid Dyes and Burnish with Color Floor application processes.

ADHESION PROMOTER: is an additive to Smith's Color Floor and Smith's Color Wall which promotes substrate adhesion for base or primary colors as well as increases durability of the stains. Smith's Color Floor and Color Wall stains already achieve superior mechanical adhesion as a result of their modified acrylic carrier, but adding Base Boost into the Smith's Concentrate produces an additional bond by reacting with the un-hydrated calcium hydroxide found in the concrete substrate.

- No VOC
- Increased durability
- Polish or Burnish
- Low Odor
- Overnight Deliverable - no Red Label

RECOMMENDED USE: Densifier and/or additive for the primary or base color of Smith's Color Floor or Color Wall installation.

NOT RECOMMENDED FOR: Highlight colors, non-concrete, previously coated substrates with residual film formers and areas treated with silicates.

COLOR: Clear liquid

VOLATILE ORGANIC CONTENT: 0 g/l

SOLIDS CONTENT:

Smith's Base Boost By Weight
10% ± 2

COVERAGE PER GALLON

Applied as densifier 400-800 sq. ft.

NOTE: Coverage depends on surface porosity, profile and application method.

STORAGE CONDITIONS:

Temperature: 40-90°F

SHELF LIFE:

Unopened Container 1 year

ORDERING INFORMATION

Prices may be obtained from Smith Paint Products, Sales Representative or local Smith's Decorative Concrete Products Dealer.

APPROXIMATE SHIP WEIGHT:

	<u>1 gal</u>	<u>5 gal</u>
Smith's Base Boost	9 lbs	45 lbs

FLASH POINT:

Smith's Base Boost >200°F

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IMPORTANT: If the intended application area has residual of a previous coating (e.g. paint, sealer) or was treated with a silicate, do not use Smith's Base Boost. Do not use for application to micro-toppings or polymer modified overlay systems.

AREA PREPARATION: Be sure to mask or cover all areas that are not intended to be stained or treated with Smith's Base Boost including but not limited to door frames, doors, walls and windows.

SURFACE PREPARATION: The surface preparation phase of "Staining a Concrete Floor" should be viewed as the most important. Proper floor preparation results in the stains longevity, minimizes potential failures and creates the best environment for an aesthetically pleasing work of art. In short, the more detail and time allotted to this phase of the project will dramatically affect the appearance and durability of the finished product.

The surface must be free of all foreign materials that would inhibit the absorption of the combination Smith's Color Floor/Color Wall stain with the Smith's Base Boost. Foreign materials include, but are not limited to grease, dirt, glue, and previous coatings.

Do not use an acid etch as a cleaning method.

CONCRETE DENSIFIER

- 1) Apply Smith's Base Boost onto intended application area with a pump up spray utilizing circular motion.
- 2) Distribute material evenly with a soft bristle push broom or microfiber pad
- 3) Re-apply material as need in areas where initial application has absorbed. Material should be applied until substrate is no longer absorbent.
- 4) Continue to manipulate applied material with push broom or microfiber pad for 15-20 minutes.
- 5) Do not allow to puddle. Allow product to dry before polishing and/or burnishing.

Refer to Smith's Liquid Dye application instruction for polishing procedure and/or Burnish with Color Floor for best practices.

ADHESION PROMOTER

HORIZONTAL APPLICATION:

Exterior – broom finish

- 1) Apply Smith's Cleaner & Toughener CT-8 solution liberally to 10 feet by 10 feet section of the floor. The surface

must be kept damp to achieve optimal cleaning. Using a floor buffer with a Mal-grit brush (smaller areas) or an auto-scrubber with a Mal-grit brush (larger areas), scrub each 10 x 10 portion of the floor thoroughly. As the scrubbing of each area is completed, wait at least 10 minutes, but not more than 30 minutes, before rinsing.

2) Rinsing is a very important step in the process. Scrubbing has loosened dirt and concrete particles which need to be completely removed. Cleaning the surface can be accomplished by using a power washer* with parallel overlapping line pattern.

3) Allow the area to dry adequately before beginning the application of Smith's Color Floor.

Interior & Smooth Surfaces

1) Amply apply Smith's Green Clean to the substrate with ½ inch nap roller cover. Allow the gel to remain on the substrate for 20 minutes.

Interiors – use of power wash is not applicable:

2) Agitate Smith's Green Clean utilizing a floor buffer (small area) or an auto-scrubber (large area) with Mal-grit brush attachments while rinsing with clean water.

3) Extract material utilizing a wet/dry vacuum or lower the squeegee uptake bar on the auto-scrubber. Continue to flush and agitate the substrate until the rinse water is clear.

Areas that can be pressure washed:

4) Remove Smith's Green Clean Cleaning from the surface using a power washer* with parallel overlapping line pattern.

5) Allow the area to dry adequately before performing a Tape Test. Upon the completion of a successful Tape Test begin the application of Smith's Stains.

*Power wash = 0 degree rotating nozzle with 12,000 work units (Work Units = Gallons per Minute x PSI)

Note: If additional profile is desired, reapply Smith's Green Clean following the previous directions.

VERTICAL APPLICATION:

1) Open the pores of the surface via power washing*. Use a parallel overlapping line pattern to insure a properly cleaned surface.

*Power wash = 0 degree rotating nozzle with 12,000 work units (Work Units = Gallons per Minute x PSI)

TAPE TEST: A tape test will help determine the effectiveness of the cleaning process. After the substrate has been pressure washed and allowed to dry; apply several 1 foot strips of high quality 2" packaging tape to various locations on





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the wall. Aggressively press the tape onto the surface with the heel of your hand. Fold one end of the tape into itself and pull it off as vigorously as possible. Examine the adhesive layer in a bright light looking for residue that was pulled from the substrate. Little to no dust or other foreign particles should be visible. Areas with visible foreign material need to be scrubbed and rinsed until the surface is free of these contaminants.

DILUTION / MIXING: Smith's Color Floor or Color Wall is supplied as a concentrate. The recommended dilution ratio is 1 part Smith's Color concentrate, 2 parts Smith's Base Boost to 2 parts distilled, deionized or reverse osmosis water. Mixture will result in ready to use stain via agitation.

Note: Our research has shown that "hard" water (water with excess amount of magnesium, calcium and various other charged ions) has an adverse affect on Smith's Color Floor and Color Wall resulting in less than optimal adhesion and longevity. Furthermore, we have found that water is not consistent over time, even from the same source. Therefore, in order to achieve maximum service distilled, deionized or reverse osmosis water is recommended.

THINNING: The recommended dilution ratio for Smith's Color Floor/Color Wall with Base Boost can be found in Dilution / Mixing section. Increased transparency as well as lighter color shade can be achieved by increasing the dilution ratio (amount of water added). The dilution ratio should not surpass 1 part Smith's Color concentrate, 4 parts Base Boost to 4 parts distilled, deionized or reverse osmosis water.

HIGH HIDE: Apply Smith's Base Boost directly to the substrate via roller application. Decreasing the dilution ratio (e.g. 1 part concentrate to 1 part water) will increase hide or opacity of Smith's Color Floor/Color Wall. This allows the applicator to cover blemishes as well as achieve uniformity on different integrally colored surfaces. A natural variegated appearance is still achieved at lower dilution rates.

APPLICATION DIRECTIONS:

	<u>Material</u>	<u>Surface</u>	<u>Ambient</u>	<u>Humidity</u>
Best	60-90°F	65-85°F	65-90°F	10-60%
Minimum	45°F	45°F	45°F	0%
Maximum	105°F	110°F	110°F	80%

APPLICATION METHOD: To achieve a natural variegated or mottled appearance, Smith's Stain with Base Boost should be applied by creating a mist via an airless sprayer, high

volume low pressure (HVLP) sprayer, production gun, pump sprayer or trigger spray bottle. A variegated or natural finish is achieved through the various absorbencies of the surface material as well as the accumulation of the color pigments. Roller application methods force absorption resulting in a more uniform or painted appearance.

BRUSH / SEA SPONGE APPLICATION: For application areas where coverage and product control is warranted, apply Smith's Stain with Base Boost using a sea sponge or traditional bristle brush (e.g. corners and faux finishes). Using this method of application may result in the appearance of mechanical lines.

DO NOT ADD SMITH'S BASE BOOST WHEN APPLYING SECONDARY / HIGHLIGHT COLOR: To achieve increased color depth or mottled appearance. A secondary or highlight color can be applied as soon as initial Smith's Stain with Base Boost is dry to the touch (approximately 15 minutes). **DO NOT** add the Smith's Base Boost to Smith's Color Floor/Color Wall for secondary or highlight colors.

Note: Smith's Base Boost should only be used for base colors. Secondary or Highlight colors should not have the Smith's Base Boost added to the Smith's Concentrate.

DRY TIMES:

<u>Temperature</u>	<u>Relative Humidity</u>	<u>Dry to the Touch</u>	<u>Final Cure</u>
70°F	30%	15-20 min	24 hours

NOTE: High humidity will lengthen dry and cure times. Dry time can be shortened by increasing temperature and air flow. Adhesion and coating strength will develop with time.

CLEAN UP: Immediately clean up work area and tools with water while system is still wet.

